

No. 704,920.

Patented July 15, 1902.

R. L. PORTER.
CROQUETTE MOLD.

(Application filed Apr. 7, 1902.)

(No Model.)

2 Sheets—Sheet 1.

Fig.1.

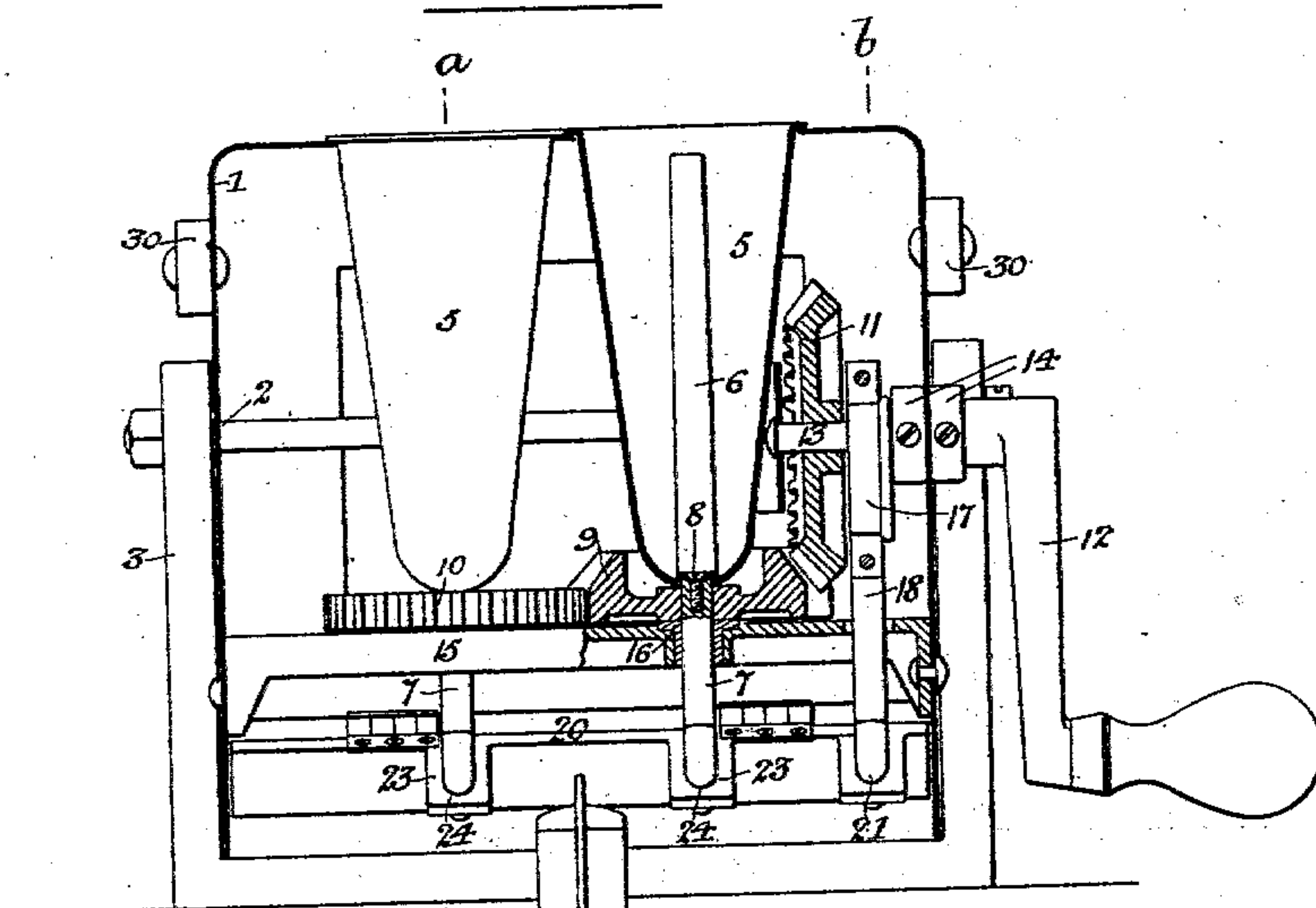


Fig. 2.

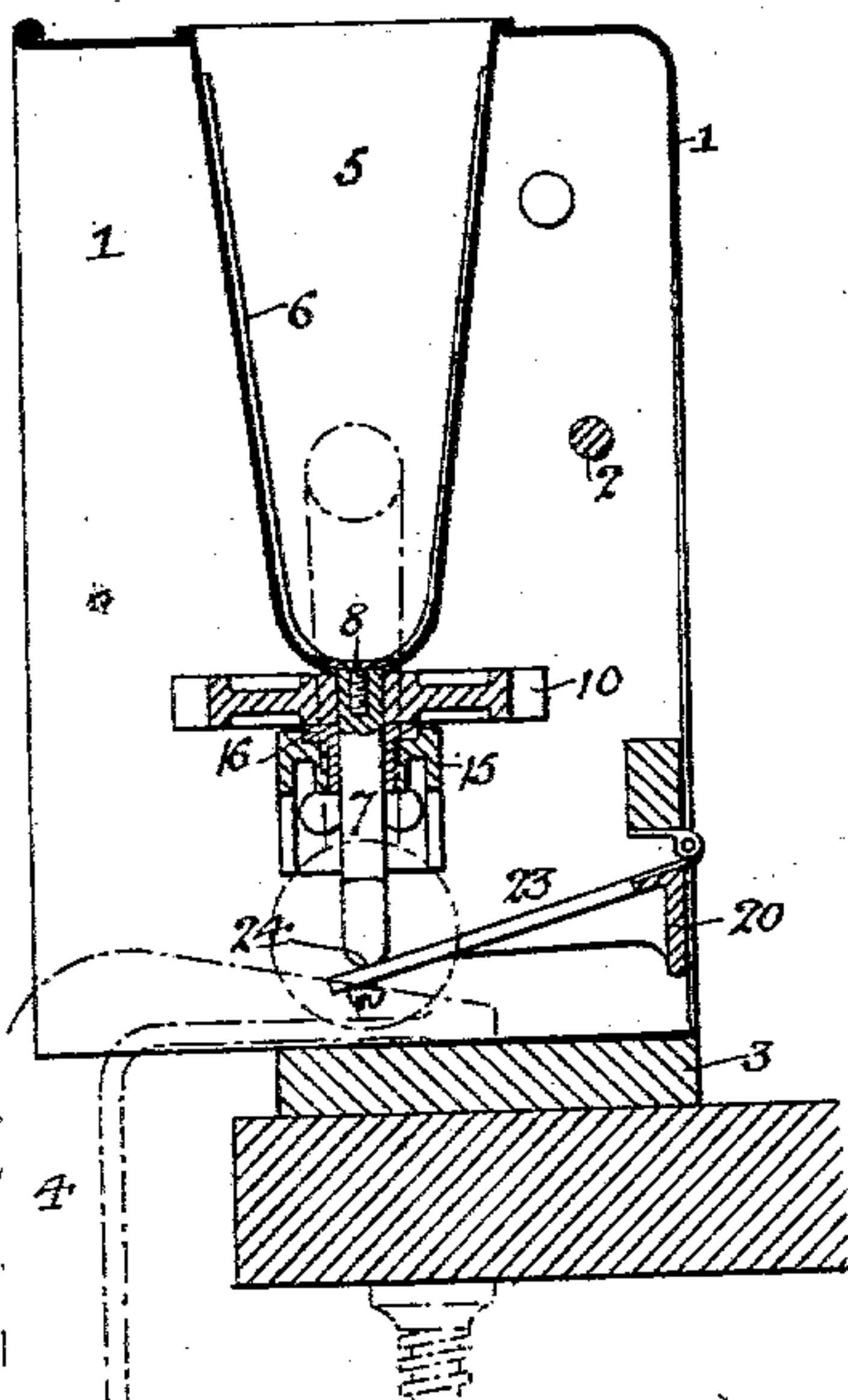
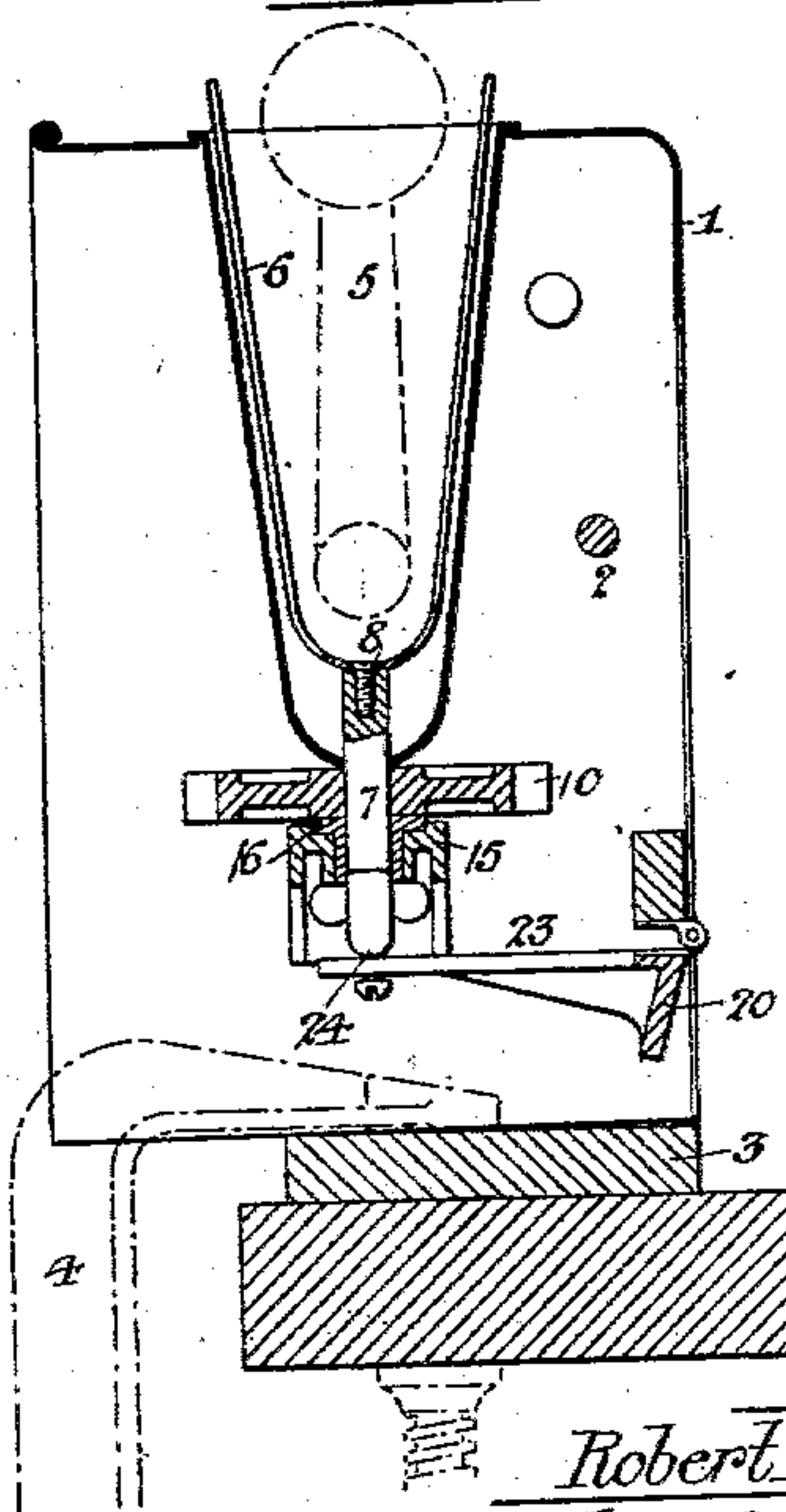


Fig. 3.



Witnesses:

H.E. Meiers!

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Robert L. Porter,

by his Attorneys;

Howson & Howson

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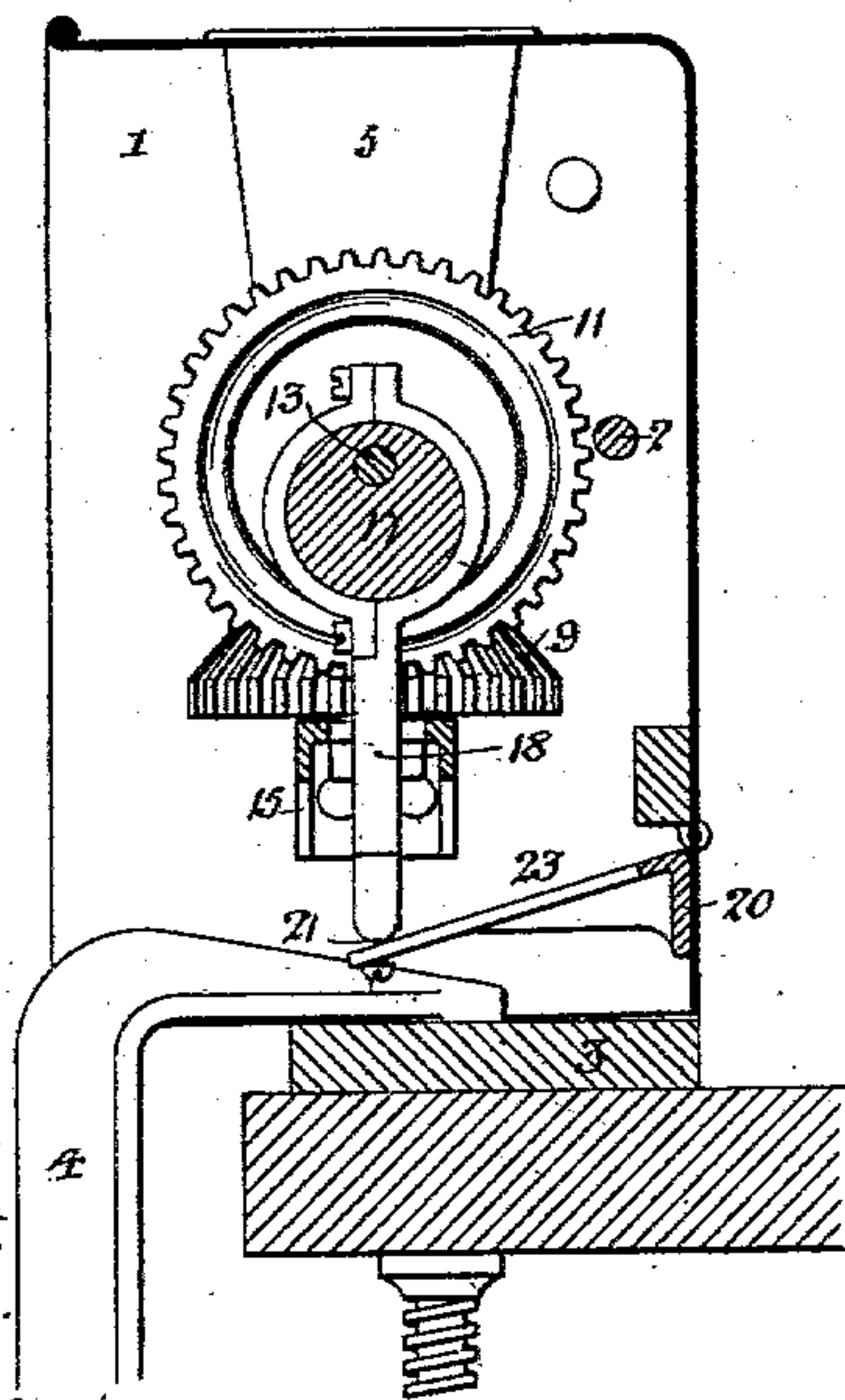
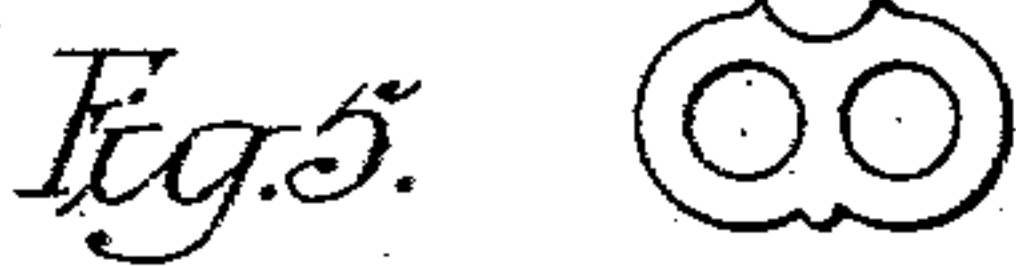
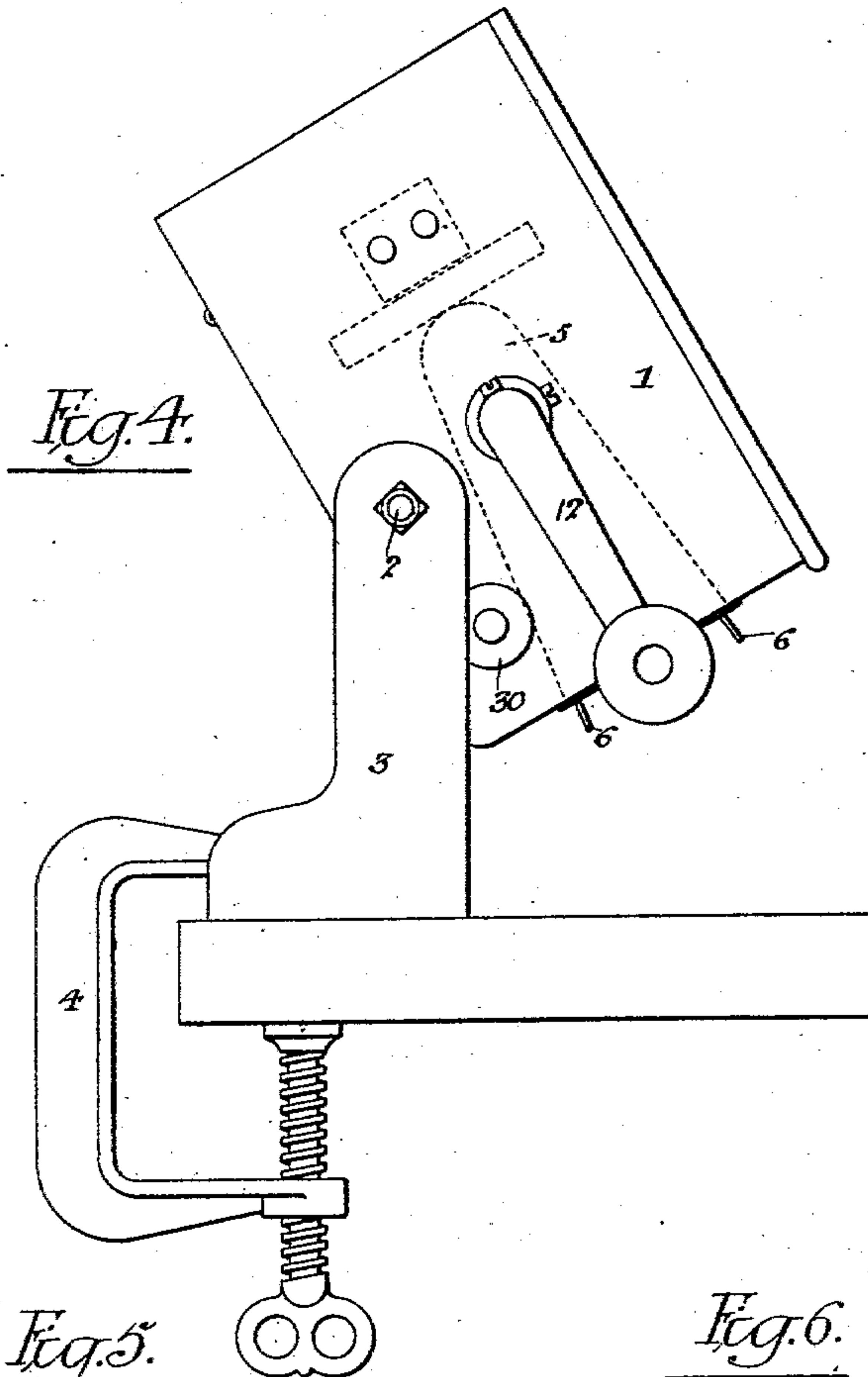
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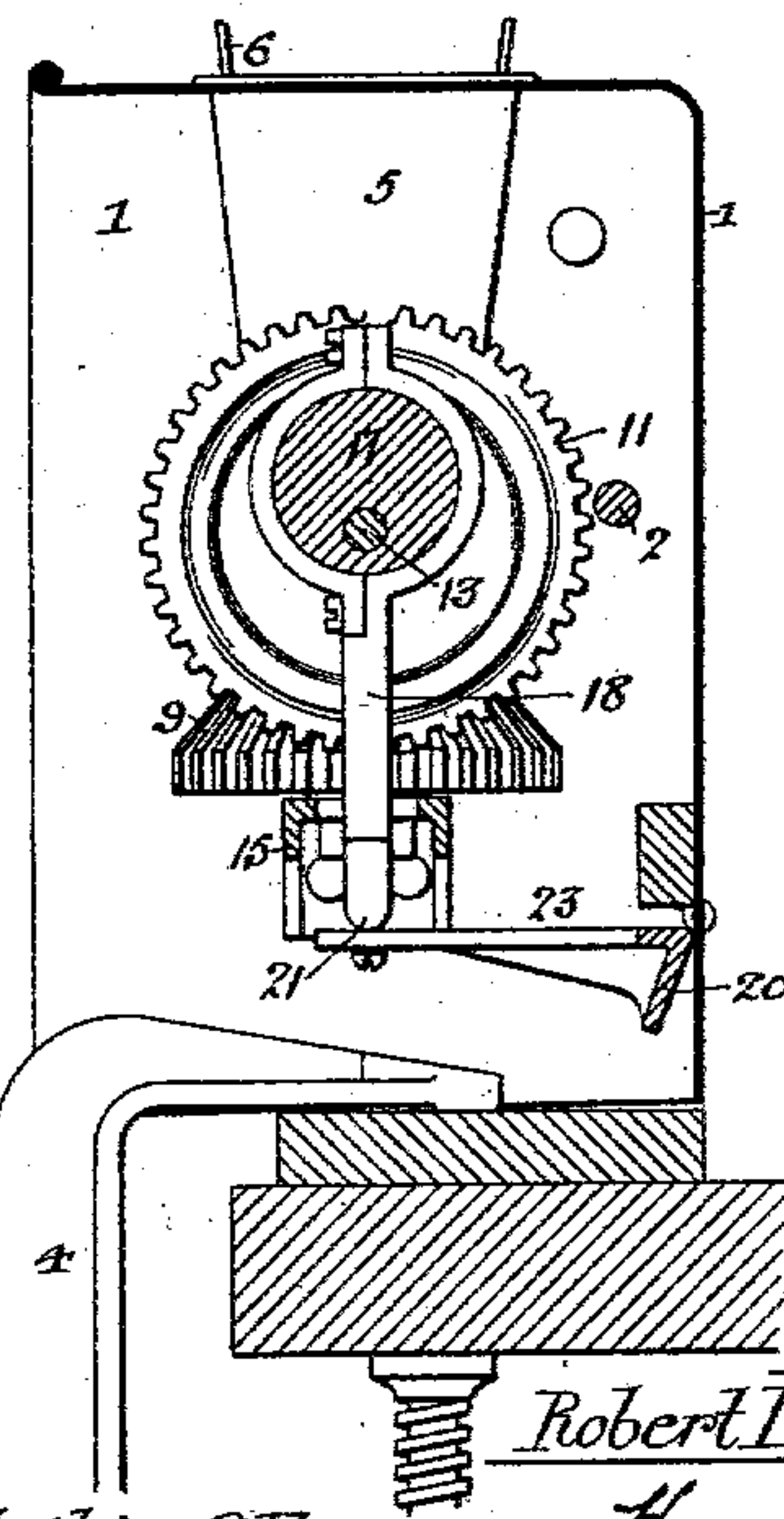
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(No Model.)

2 Sheets—Sheet 2.



Witnesses:
H. E. Metcalf
O. B. P. P. P.



Inventor
Robert L. Porter,
by his Attorneys: Howard & Howard.

UNITED STATES PATENT OFFICE.

ROBERT L. PORTER, OF PHILADELPHIA, PENNSYLVANIA.

CROQUETTE-MOLD.

SPECIFICATION forming part of Letters Patent No. 704,920, dated July 15, 1902.

Application filed April 7, 1902. Serial No. 101,715. (No model.)

To all whom it may concern:

Be it known that I, ROBERT L. PORTER, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Croquette-Molds, of which the following is a specification.

My invention relates to a special form of culinary utensil designed for the purpose of readily and accurately measuring and molding that article of food familiarly known as a "croquette," although it may be used to mold any article of food.

The mechanism forming the subject of my invention is pivotally hung in a suitable frame which is adapted to be mounted upon a table and held thereto when it is to be operated. The pivotal connection is provided so that the molds may be turned upside down to discharge the contents of the same.

In the accompanying drawings, Figure 1 is an elevation of the machine forming the subject of my invention, partly in section. Figs. 2 and 3 are sectional views taken on the line *a a*, Fig. 1, showing a portion of the mechanism in different positions. Fig. 4 is an end elevation of the apparatus, showing the mold-casing tilted to discharge the contents of the mold; and Figs. 5 and 6 are sectional views on the line *b b*, Fig. 1, illustrating the means for operating a portion of the molding mechanism.

In the accompanying drawings, 1 represents the mold-carrying casing, which is pivotally mounted at 2 to a frame 3, which frame may be secured to a table-top by means of the usual clamping structure 4. Carried by the frame 1 are the molds 5, of any suitable shape, which are fixed to said casing in any suitable manner and are adapted to move with the latter when it is turned to the position shown in Fig. 4. Arranged within each mold is a pair of scraping-knives 6, suitably secured to a depending stem 7, which is connected to mechanism shortly to be described for raising and lowering the scraping-knives within the molds. The securing means in the present instance is a screw 8, and the mold-casings are curved at the bottom to the same shape as the lower portion of the knives. The depending stems 7 are squared, as shown, and are adapted to pass through the gear-wheels 9 and 10, which mesh together and

which serve to move the scraping-knives within the molds, movement being imparted by means of a bevel-gear 11, meshing with a set of bevel-teeth formed on the wheel 9. To drive the bevel-pinion 11, I provide the crank 12, attached to the opposite end of the spindle 13, carrying said wheel 11, and spacing-collars 14 are also secured to said spindle in order that it may be held in proper relation to the casing. A cross-bar 15 serves to maintain the gear-wheels 9 and 10 in their proper relation with respect to the molds, and the cross-bar carries the collars 16, having squared openings for the passage of the stems 7.

For the purpose of imparting a vertical movement to the scraping-knives as they are rotated I provide the eccentric disk 17, mounted on the spindle 13. Engaging this disk and depending from the same are a strap and rod 18, the latter passing through the brace 15, which is slotted for the purpose. Pivotally mounted at the side of the casing is a rocking member 20, to which the rod extending from the eccentric arm is connected at 21. This rocking member is also provided with arms 23, to which the projecting stems 7, leading from the molds, are secured at 24. By this arrangement the rotation of the crank-handle 12 will, through the medium of the several gear-wheels, impart a rotative movement to the scraping-knives, and with the aid of the rocking member 20 and the eccentric 17 and its connections the scraping-knives will be raised and lowered as they are rotated. The vertical movement of the knives is particularly desirable in cutting the molded material clear of the upper edge of the mold preparatory to turning the mold-casing to discharge it, as shown in Fig. 4.

To provide stops for limiting the movement of the casing when the croquette is to be discharged, I arrange the rubber blocks 30 as clearly shown in Figs. 1 and 4. The structure will readily turn upon the pivot-pin 2 and is so weighted that it will remain normally in the vertical position shown in Figs. 1 and 3, but may be held by the hand in the position shown in Fig. 4 to remove the molded croquettes.

In operation the molds will be filled from any suitable source of supply and the material pressed in. After this has been done the

machine will be turned to the position shown in Fig. 4, a suitable receptacle being provided, and the molded croquettes may be readily discharged by rotating the crank 12, and thereby imparting the necessary rotative and vertical movement to the scraping-knives arranged within said molds.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. In an apparatus of the character described, the combination of the mold, scraping means suitably arranged and adapted to act upon the surface of the mold, and means for rotating said scraping means and moving them in a longitudinal direction simultaneously.

2. In an apparatus of the character described, the combination of the frame, molds carried thereby, scraping-knives arranged within said molds, depending stems projecting through the bottoms of the molds, said knives being secured to the stems, means connecting said stems whereby the knives may be rotated simultaneously, and means for giving said knives longitudinal movement as they are rotated.

3. The combination in an apparatus of the character described, of the casing, molds carried thereby, scraping-knives arranged within said molds, depending stems carrying said knives and pinions carried by said stems and meshing together, a bevel-pinion meshing with one of the other pinions, and a crank-handle operatively connected to said bevel-pinion whereby movement may be imparted to the rotating knives.

4. The combination of the casing, the frame to which said casing is pivoted, molds carried by said casing, scraping-knives arranged within said molds, and means for simultaneously rotating and longitudinally moving said scraping-knives.

5. The combination in an apparatus of the character described, of the casing, molds carried thereby, scraping-knives arranged within said casing, depending stems carrying said knives, a rocking member secured to the casing to which said stems are connected, gearing connecting said stems whereby the knives may be rotated simultaneously, and means

connecting the crank-shaft and the rocking member whereby the knives may be moved longitudinally as they are rotated.

6. The combination of the frame, a movable casing carried thereby, molds carried by said movable casing, scraping devices arranged within said molds, and means for giving said scraping devices movement in two directions.

7. The combination of the fixed frame, a movable casing carried thereby, molds carried by said movable casing, scraping-knives arranged in said molds, coacting mechanism carried by said casing for rotating the knives and moving them longitudinally, and means for operating said mechanism.

8. The combination of the casing, the molds carried thereby, scraping-knives arranged in said molds, depending squared stems to which said knives are attached, a cross-bar carried by the frame, gear-wheels carried by said stems and meshing together whereby the knives may be driven simultaneously, and collars carried by said cross-bars and having squared openings for the passage of the stems, said stems passing freely through the gear-wheels and collars.

9. The combination of the mold, the scraping-knife carried thereby, a depending stem to which the knife is connected, a rocking member carried by the casing, and a connection between said rocking member and the stem whereby the knife may be raised and lowered.

10. The combination of the mold, the scraping-knife carried thereby, a depending stem to which the knife is connected, a rocking member carried by the casing, and a connection between said rocking member and the stem whereby the knife may be raised and lowered, and means for rotating said knife simultaneously with the raising and lowering of the same.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT L. PORTER.

Witnesses:

MURRAY C. BOYER,
JOS. H. KLEIN.